

Ultra 8500



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VENDOR DESCRIPTION

FLIR Systems Inc., the leading provider of airborne imaging solutions, has added the breakthrough Ultra 8500 to its line of gyro-stabilized surveillance systems. This three-sensor system was designed to satisfy the requirements of agencies operating light rotor- and fixed-wing aircraft, as well as to meet the UAV community's demanding high-altitude, long-range surveillance needs. The Ultra 8500 is ideal for any organization whose platform and mission parameters call for state-of-the-art infrared imaging capability while minimizing impact to their aircraft's available flight profile. The key features include:

- Small diameter turret (9"), for low drag and high ground clearance.
- Low total system weight (46.2 lbs) for minimal impact to fuel load.
- 320 x 240 InSb 3-5 micron MWIR staring array for superior thermal imaging performance.
- Integrated Autotracker and Auto-scan to reduce operator workload.
- GPS interface to display aircraft position.
- Infrared (IR) and daylight (TV) cameras with continuous zoom to facilitate tracking and identification of targets.
- NVG-compatible Laser Pointer for precise target location and easy coordination with ground personnel.



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Business Category: Small Business

EOIR

Hardware – Central Electronic Unit (CEU)		Gimbal
RF Frequency: N/A	Operating Temp.: -20°C to + 55°C	Height: 13.6 in. Weight: 29 lbs
Power: 28VDC per MIL-STD-704D, 280 W maximum steady state	Storage Temp.: -46°C to + 71°C	Stabilization: ≤ 50 mrad RMS
Weight: 15.5 lbs max.	Interface: RS-232, RS-422	Pointing Accuracy: ±3 milli-radians
Dimensions: 9.90" W x 5.94" H x 10.63" D	Bandwidth Required: N/A	Angular Speed: N/A
Internal Volume: 0.36 ft ³	TCDL Compatibility: Yes (RS-422, RS-232)	Azimuth Coverage: 360° continuous
Cooling: Ambient air	MTBF: > 1500 hrs	Elevation Coverage: 360° continuous
LOS Stabilization: N/A	MTTR: N/A (0.5 hrs to replace any component)	Slew Rate Azimuth: 0-50°/sec.
Auto Video Tracker: Yes	Maintainability: BIT @ O Level to Depot level	Slew Rate Elev: 0-50°/sec.
Operating Altitude: To 15,000' MSL	Pd: N/A	TLE: N/A
Operating Speed: 0 to 250 knots	Pr: N/A	ATC or ATR or ATI: ½ ATR

Electro-Optical (EO)	Infrared (IR)
Type: Super HAD CCD-.25 Format	Type: MWIR 3-5 InSb / Staring Array
Resolution: More than 470 Lines (H)	Resolution: 320 x 240
Range: Available on request	Range: Available on request
Angular Coverage: See FOV	Angular Coverage: See FOV
Zoom Rate: Fixed	Cooling Method: Closed cycle
Modes of Operation: Normal & Low-Light	Modes of Operation: Manual Gain, Auto Gain, Enhanced Gain, Inertial Point, Auto Track
Target Size: 2.3 m x 2.3 m NATO Standard	Target Size: 2.3 m x 2.3 m NATO Standard
Field of View: 48° x 32° Wide, 2.7° x 2.2° Narrow	WFOV: 21.7° H x 16.4° V
Sensitivity: 3.0 lux @ f/1.4	MFOV: Continuous
Color or B/W: Color	NFOV: 2.2° H x 1.65° V